





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/857,113	05/31/2001		Harald Michi	10191/1775	9218
26646	7590	06/13/2003			
KENYON		ON	EXAMINER		
ONE BROADWAY NEW YORK, NY 10004			NGUYEN, THU V		
				ART UNIT	PAPER NUMBER
				3661 DATE MAILED: 06/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A AA						
	Application No.	Applicant(s)						
,	09/857,113	MICHI ET AL.						
Office Action Summary	Examiner	Art Unit						
	Thu Nguyen	3661						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu. - Any reply received by the Office later than three months after the mailinearmed patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) do d will apply and will expire SIX (6) MONTHS frow the cause the application to become ABANDON	ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).						
1) Responsive to communication(s) filed on 21	<u>March 2003</u> .							
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.							
3) Since this application is in condition for allow								
closed in accordance with the practice unde Disposition of Claims	r Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.						
4)⊠ Claim(s) <u>15-30</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>15-30</u> is/are rejected.								
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.							
Application Papers								
9) The specification is objected to by the Examin								
10) The drawing(s) filed on is/are: a) acc								
Applicant may not request that any objection to t 11) The proposed drawing correction filed on		• •						
If approved, corrected drawings are required in r	_	oved by the Examiner.						
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign	an priority under 35 U.S.C. § 1190	(a)-(d) or (f)						
a)⊠ All b)□ Some * c)□ None of:	griphicity and or or or or or or	(4)						
1. ☐ Certified copies of the priority documer	nts have been received.							
2. Certified copies of the priority documents have been received in Application No								
3.⊠ Copies of the certified copies of the pri application from the International B	ority documents have been receivureau (PCT Rule 17.2(a)).	ved in this National Stage						
* See the attached detailed Office action for a list	•							
14) ☐ Acknowledgment is made of a claim for domesa) ☐ The translation of the foreign language presented in the foreign langu		• • • • • • • • • • • • • • • • • • • •						
15) Acknowledgment is made of a claim for domes	• •							
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Information	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)						

Application/Control Number: 09/857,113 Page 2

Art Unit: 3661

DETAILED ACTION

The argument filed on March 21, 2003 has been entered. Claims 15-30 are pending in the application. A new ground of rejection on the pending claims followed:

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 15-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al (US 5,841,366) in view of Izumi et al (US 5,648,905).

As per claim 15-18, 21-23, 25-30, Yamamoto teaches a method for determining a future travel path of a first vehicle equipped with a distance sensor in which a relative position of a second vehicle is determined using the distance sensor (col.5, lines 51-56). Yamamoto does not explicitly teach determining the course path of the second vehicle, determining the future travel path and projecting the course path in direction of a position of the first vehicle. However, Yamamoto teaches determining the future travel path of the first vehicle in the direction of the first vehicle (col.6, lines 13-27), further, since Yamamoto teaches that the future travel path is

Application/Control Number: 09/857,113 Page 3

Art Unit: 3661

determined based on the minimal distance between the second vehicle and the future travel path (col.5, lines 51-67; col.6, lines 13-27), and since when the distance between the second vehicle and the future travel path is minimal (d11S4 - d'11S4=0, etc) the future travel path is the course path of the second vehicle, Yamamoto obviously teach determining the future travel path as a function of the course path of the second vehicle with the course path of the second vehicle is generated at the first vehicle. Moreover, Izumi teaches determining the course path of the second vehicle inthe direction of the second vehicle (col.6, lines 23-26). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to project the future travel path of the second vehicle in the direction of travel of the first vehicle after the course path has been determined since selecting an origin of direction at which the future path is calculated, and moving the course path to another origin of direction requires only routine skill in the art.

As per claim 19-20, Izumi teaches filtering out the lane change of the second vehicle using comparison (col.7, lines 58-67; col.8, lines 1-28). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to filter out the second vehicle that has changed the lane in order to determine the distance of the first vehicle to the most relevant second vehicle that is in the lane of the first vehicle.

As per claim 24, using the ring memory to store first in first out data (FIFO) would have been well known.

Application/Control Number: 09/857,113

Art Unit: 3661

Response to Arguments

3. Applicant's arguments with respect to claims 15-17, 26, 28-30 have been considered but are most in view of the new ground(s) of rejection.

The indicated allowable subject matter has been withdrawn in view of the newly found references.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 305-7687, (for formal communications intended for entry)

Or:

(703) 305-7687 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (703) 306-9130. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:00 pm ET.

Art Unit: 3661

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski, can be reached on (703) 308-3873. The fax phone number for this Group is (703)305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-1111.

Thu Nguyen

Nguyenben

June 5, 2003